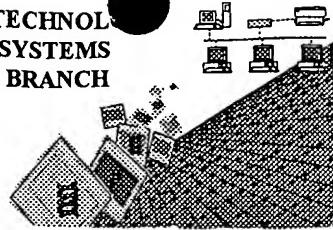# RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: ___10/049,967___

Source: ___PCT10___

Date Processed by STIC: ___03/01/02___

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY** or,
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
    http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. **Hand Carry directly to:**
    U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
            Or
    U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

PCT I O

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/049,967

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1____Wrapped Nucleics
Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2____Invalid Line Length

The rules require that a line not exceed 72 characters in length. This includes white spaces.

3____Misaligned Amino
Numbering

The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4____Non-ASCII

The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5____Variable Length

Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6____PatentIn 2.0
"bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7____Skipped Sequences
(OLD RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8____Skipped Sequences
(NEW RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9____Use of n's or Xaa's
(NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.

10____Invalid <213>
Response

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11 ✓ Use of <220>

Sequence(s) 20 -28 missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12____PatentIn 2.0
"bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13____Misuse of n

n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH – Biotechnology Systems Branch – 08/21/2001

PCT10

Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/049,967

DATE: 03/01/2002
TIME: 14:49:53

Input Set : **A:\P23294pc.app**
Output Set: **N:\CRF3\03012002\J049967.raw**

The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

Errors on pp. 4-5

```
      3 <110> APPLICANT: Imperial College Innovations Limited
      5 <120> TITLE OF INVENTION: Methods of treatment
      7 <130> FILE REFERENCE: ICOY/P23294PC
C-->  9 <140> CURRENT APPLICATION NUMBER: US/10/049,967
C--> 10 <141> CURRENT FILING DATE: 2002-02-18
     12 <160> NUMBER OF SEQ ID NOS: 32
     14 <170> SOFTWARE: PatentIn Ver. 2.0
     16 <210> SEQ ID NO: 1
     17 <211> LENGTH: 25
     18 <212> TYPE: DNA
     19 <213> ORGANISM: Artificial Sequence
     21 <220> FEATURE:
     22 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
     24 <400> SEQUENCE: 1
     25 agacggatac catggccgag gacgc                                         25
     27 <210> SEQ ID NO: 2
     28 <211> LENGTH: 30
     29 <212> TYPE: DNA
     30 <213> ORGANISM: Artificial Sequence
     32 <220> FEATURE:
     33 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
     35 <400> SEQUENCE: 2
     36 agcatgaatt ctcaacgttg gttggcttca                                    30
     38 <210> SEQ ID NO: 3
     39 <211> LENGTH: 29
     40 <212> TYPE: DNA
     41 <213> ORGANISM: Artificial Sequence
     43 <220> FEATURE:
     44 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
     46 <400> SEQUENCE: 3
     47 catctttgtt gcagctgcgt tggcttcat                                     29
     49 <210> SEQ ID NO: 4
     50 <211> LENGTH: 30
     51 <212> TYPE: DNA
     52 <213> ORGANISM: Artificial Sequence
     54 <220> FEATURE:
     55 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
     57 <400> SEQUENCE: 4
     58 catctttgtt gcctttgcgt tggcttccat                                    30
     60 <210> SEQ ID NO: 5
     61 <211> LENGTH: 32
     62 <212> TYPE: DNA
     63 <213> ORGANISM: Artificial Sequence
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/049,967

DATE: 03/01/2002
TIME: 14:49:53

Input Set : A:\P23294pc.app
Output Set: N:\CRF3\03012002\J049967.raw

```
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66 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
68 <400> SEQUENCE: 5
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71 <210> SEQ ID NO: 6
72 <211> LENGTH: 35
73 <212> TYPE: DNA
74 <213> ORGANISM: Artificial Sequence
76 <220> FEATURE:
77 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
79 <400> SEQUENCE: 6
80 gatgaagcca accaaactgc aacaaagatg ctggg                             35
82 <210> SEQ ID NO: 7
83 <211> LENGTH: 34
84 <212> TYPE: DNA
85 <213> ORGANISM: Artificial Sequence
87 <220> FEATURE:
88 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
90 <400> SEQUENCE: 7
91 cccagcatct ttgttgcagt ttggttggct tatc                             34
93 <210> SEQ ID NO: 8
94 <211> LENGTH: 27
95 <212> TYPE: DNA
96 <213> ORGANISM: Artificial Sequence
98 <220> FEATURE:
99 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
101 <400> SEQUENCE: 8
102 gatgaagcca acgcacgtgc aacaaag                                     27
104 <210> SEQ ID NO: 9
105 <211> LENGTH: 35
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
112 <400> SEQUENCE: 9
113 cccagcatct ttgttgcacg tgcgttggct tcatc                            35
115 <210> SEQ ID NO: 10
116 <211> LENGTH: 35
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
120 <220> FEATURE:
121 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
123 <400> SEQUENCE: 10
124 gatgaagcca accaagctgc aacaaagatg ctggg                            35
126 <210> SEQ ID NO: 11
127 <211> LENGTH: 35
128 <212> TYPE: DNA
129 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/049,967

DATE: 03/01/2002
TIME: 14:49:53

Input Set : A:\P23294pc.app
Output Set: N:\CRF3\03012002\J049967.raw

```
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134 <400> SEQUENCE: 11
135 cccagcatct ttgttgcagc ttggttggct tcatc                           35
137 <210> SEQ ID NO: 12
138 <211> LENGTH: 41
139 <212> TYPE: DNA
140 <213> ORGANISM: Artificial Sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
145 <400> SEQUENCE: 12
146 ccagaattga tgaagccaac aaacatgcaa caaagatgct g                    41
148 <210> SEQ ID NO: 13
149 <211> LENGTH: 41
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
156 <400> SEQUENCE: 13
157 cagcatcttt gttgcatgtt tgttggcttc atcaattctg g                    41
159 <210> SEQ ID NO: 14
160 <211> LENGTH: 42
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
167 <400> SEQUENCE: 14
168 gatgaagcca accaaactgc ataaagatg ctgggaagtg gt                    42
170 <210> SEQ ID NO: 15
171 <211> LENGTH: 42
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
178 <400> SEQUENCE: 15
179 accacttccc agcatctttt atgcagtttg gttggcttca tc                   42
181 <210> SEQ ID NO: 16
182 <211> LENGTH: 42
183 <212> TYPE: DNA
184 <213> ORGANISM: Artificial Sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
189 <400> SEQUENCE: 16
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192 <210> SEQ ID NO: 17
193 <211> LENGTH: 42
194 <212> TYPE: DNA
195 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
198 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
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RAW SEQUENCE LISTING   DATE: 03/01/2002
PATENT APPLICATION: US/10/049,967   TIME: 14:49:53

Input Set : **A:\P23294pc.app**
Output Set: **N:\CRF3\03012002\J049967.raw**

```
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203 <210> SEQ ID NO: 18
204 <211> LENGTH: 36
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
209 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
211 <400> SEQUENCE: 18
212 gccaaccaac gtgcaacaaa gatgtaggga agtggt                            36
214 <210> SEQ ID NO: 19
215 <211> LENGTH: 36
216 <212> TYPE: DNA
217 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer
222 <400> SEQUENCE: 19
223 accacttccc tacatctttg ttgcacgttg gttggc                            36
225 <210> SEQ ID NO: 20
226 <211> LENGTH: 10
227 <212> TYPE: PRT
228 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
233 <400> SEQUENCE: 20
234 Gln Arg Ala Thr Lys Met Leu Gly Ser Gly
235   1               5                  10
238 <210> SEQ ID NO: 21
239 <211> LENGTH: 10
240 <212> TYPE: PRT
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
246 <400> SEQUENCE: 21
247 Gln Thr Ala Thr Lys Met Leu Gly Ser Gly
248   1               5                  10
251 <210> SEQ ID NO: 22
252 <211> LENGTH: 7
253 <212> TYPE: PRT
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
259 <400> SEQUENCE: 22
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261   1               5
264 <210> SEQ ID NO: 23
265 <211> LENGTH: 7
266 <212> TYPE: PRT
267 <213> ORGANISM: Artificial Sequence
```

[handwritten annotations:] → unacceptable; must explain genetic source. See error summary sheet, item 11

[handwritten:] — same

[handwritten:] — same

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/049,967

DATE: 03/01/2002
TIME: 14:49:53

Input Set : A:\P23294pc.app
Output Set: N:\CRF3\03012002\J049967.raw

```
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270 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide      - same
272 <400> SEQUENCE: 23
273 Gln Thr Ala Thr Lys Met Leu
274   1           5
277 <210> SEQ ID NO: 24
278 <211> LENGTH: 6
279 <212> TYPE: PRT
280 <213> ORGANISM: Artificial Sequence
282 <220> FEATURE:
283 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide      -Same
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286 Gln Arg Ala Thr Lys Met
287   1           5
290 <210> SEQ ID NO: 25
291 <211> LENGTH: 6
292 <212> TYPE: PRT
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide      -same
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300   1           5
303 <210> SEQ ID NO: 26
304 <211> LENGTH: 5
305 <212> TYPE: PRT
306 <213> ORGANISM: Artificial Sequence
308 <220> FEATURE:
309 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide      -same
311 <400> SEQUENCE: 26
312 Gln Arg Ala Thr Lys
313   1           5
316 <210> SEQ ID NO: 27
317 <211> LENGTH: 5
318 <212> TYPE: PRT
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
322 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide      - same
324 <400> SEQUENCE: 27
325 Gln Thr Ala Thr Lys
326   1           5
329 <210> SEQ ID NO: 28
330 <211> LENGTH: 4
331 <212> TYPE: PRT
332 <213> ORGANISM: Artificial Sequence
334 <220> FEATURE:
335 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide      - same
337 <400> SEQUENCE: 28
338 Gln Thr Gln Thr
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VERIFICATION SUMMARY   DATE: 03/01/2002
PATENT APPLICATION: US/10/049,967   TIME: 14:49:55

Input Set : **A:\P23294pc.app**
Output Set: **N:\CRF3\03012002\J049967.raw**

L:9 M:270 C: Current Application Number differs, Replaced Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date